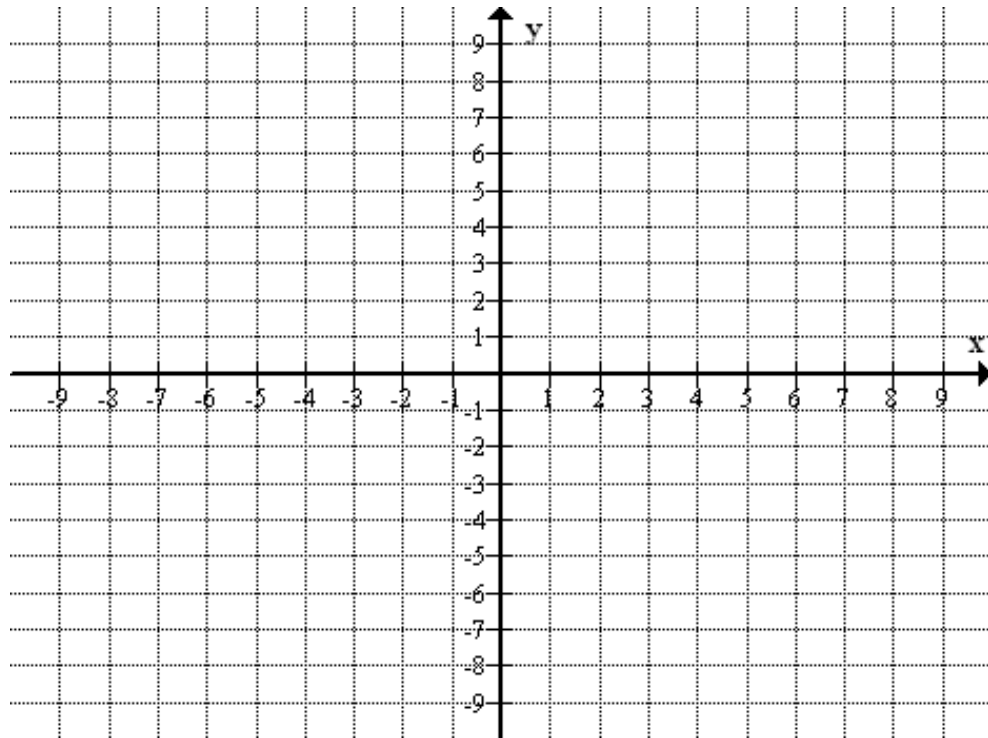


## Offline HW 7

This assignment is **due on Monday, November 6**. No extensions will be given.

**SHOW COMPLETE WORK. NO WORK, NO CREDIT.**

1. Write the equation in the standard form of the ellipse with foci at  $(-1, -2)$  and  $(-1, 6)$  and a vertex at  $(-1, 8)$ . Find the coordinates of the center and of the other vertex. Graph the ellipse.



2. Write the equation in the standard form. Find the coordinates of the center, vertices, foci, and graph the equation.

$$25x^2 + 4y^2 + 100x - 24y + 36 = 0$$

